



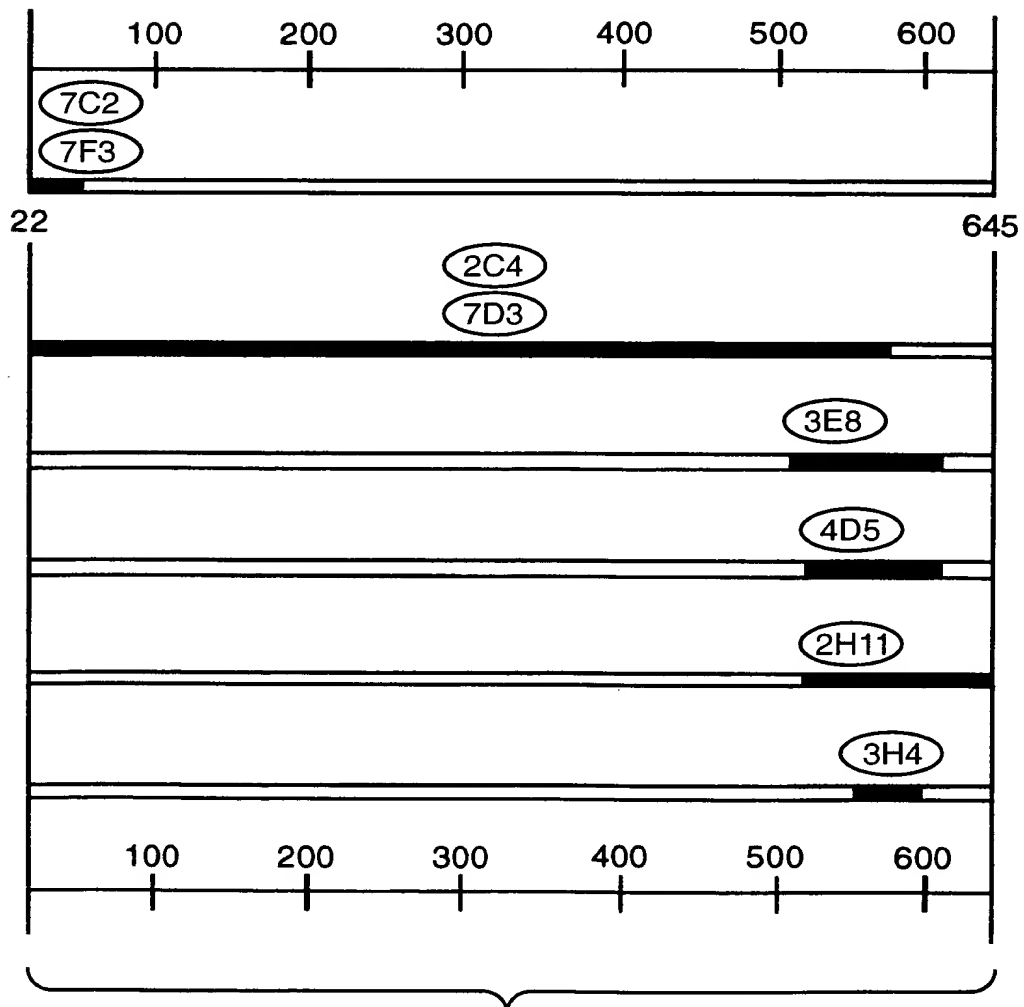
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1 MELAALCRWG LLLALLPPGA ASTQVCTGTD MKLRLPASPE THLDMRHLHY QGCQVQGNL ELTYLPTNAS LSFLODIQEV QGYVLIAHNQ VRQVPLQRLR  
101 IVRGTQLFED NYALAVLDNG DPLNNTTPVT GASPGGLREL QLRSLTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA LTLIDTNRSR ACHPCSPMCK  
201 GSRWGESSE DCOSLTRTVC AGGCARCKGP LPTDCCHEQC AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP  
301 YNYLSTDVGS CTLVCPHLNQ EVTAEDGTOR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLQVF  
401 ETLEEITGYL YISAWPDSL P DLVSFQNLQV IRGRILHNGA YSLTLQGLGI SWGLRSLRE LGSGLALIIH NTHLCFVHTV PWDQLFRNPH QALLHTANRP  
501 EDECVGEGLA CHOLCARGHC WPGPTQCVN CSQFLRGQEC VEECRVLQGL PREYVNAHRC LPCHPECQPO NGSVTCFGPE ADQCVACAHY KDPPFCVARC  
601 PSGVKPDLSY MPIWKFPDEE GACQPCPINC THSCVDLDDK GCPAE (SEQ ID NO: 13)

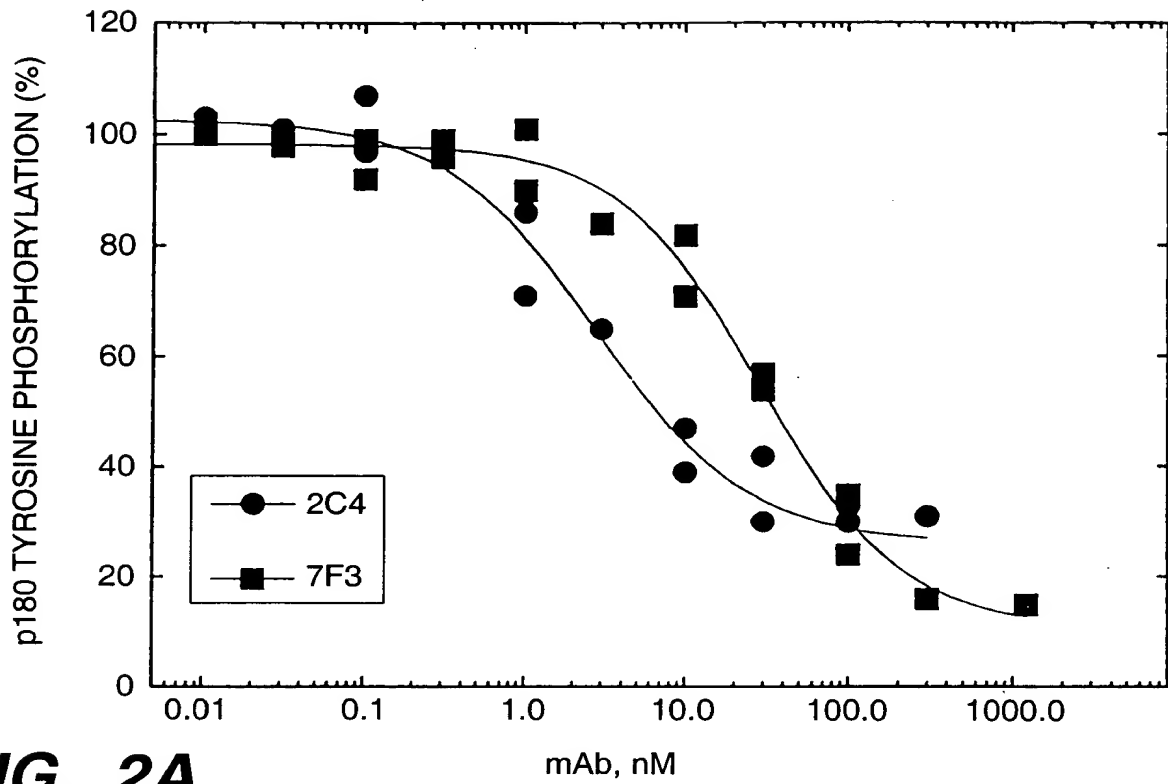
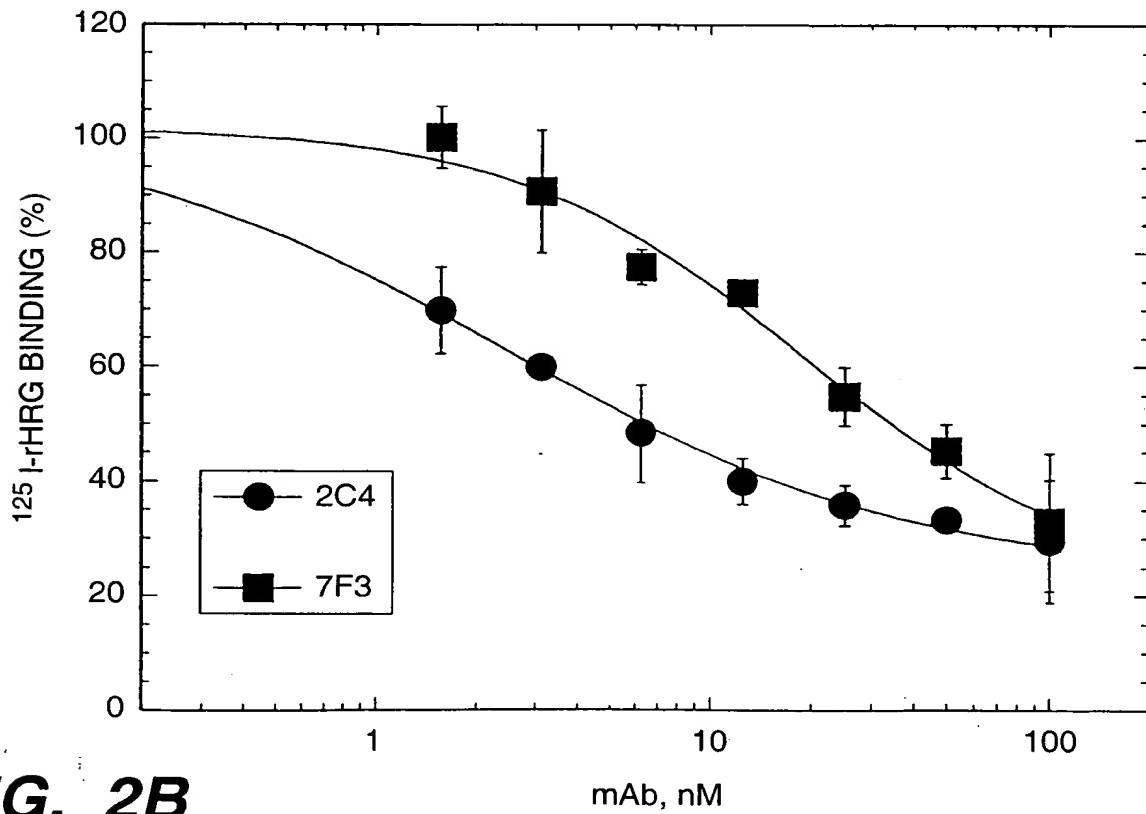
**FIG.\_1A**

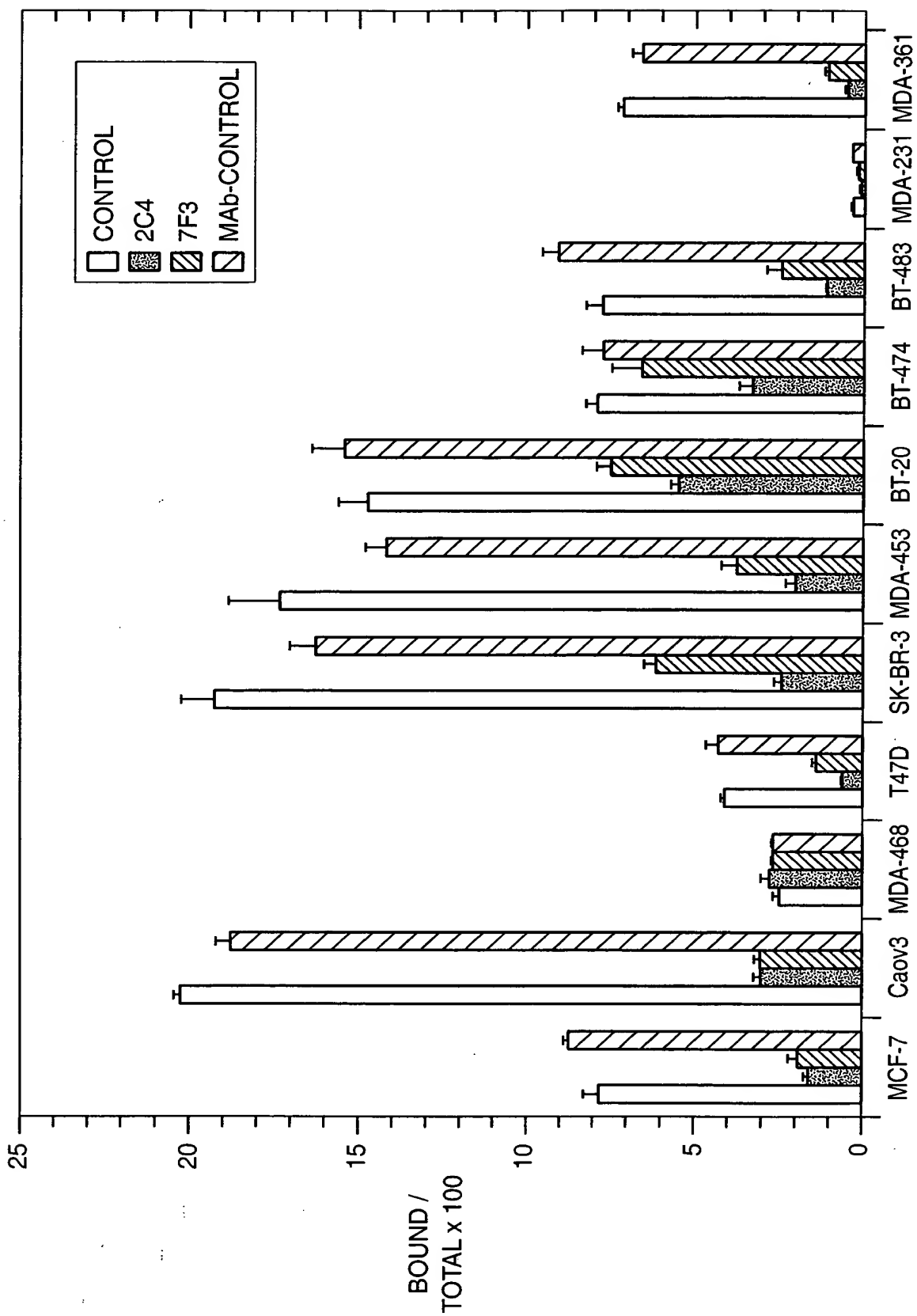
+

7C2	aa	22-53	(31 RESIDUES)
7F3	aa	22-53	(31 RESIDUES)
2C4	aa	22-584	(562 RESIDUES)
7D3	aa	22-584	(562 RESIDUES)
3E8	aa	512-625	(113 RESIDUES)
4D5	aa	529-625	(96 RESIDUES)
2H11	aa	529-645	(116 RESIDUES)
3H4	aa	541-599	(58 RESIDUES)

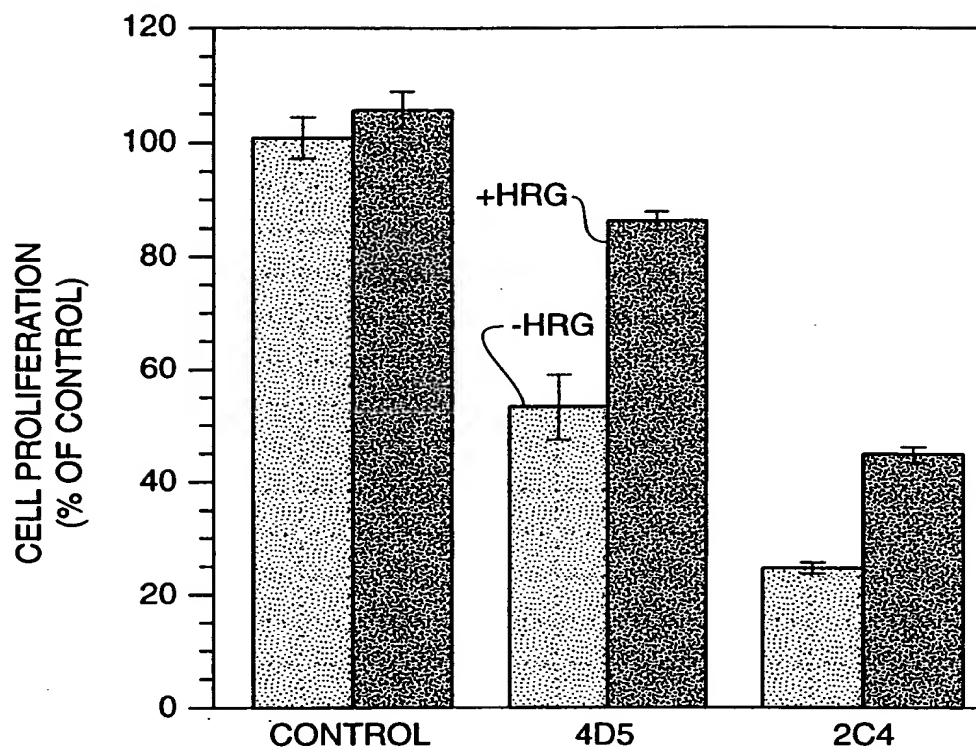
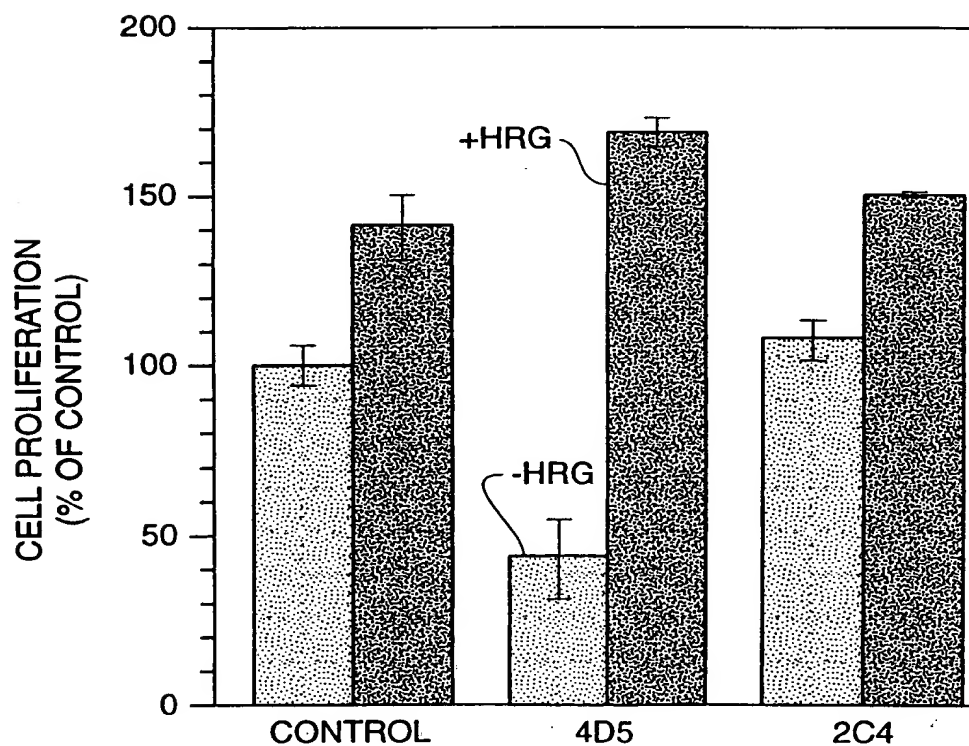
**FIG. 1B**

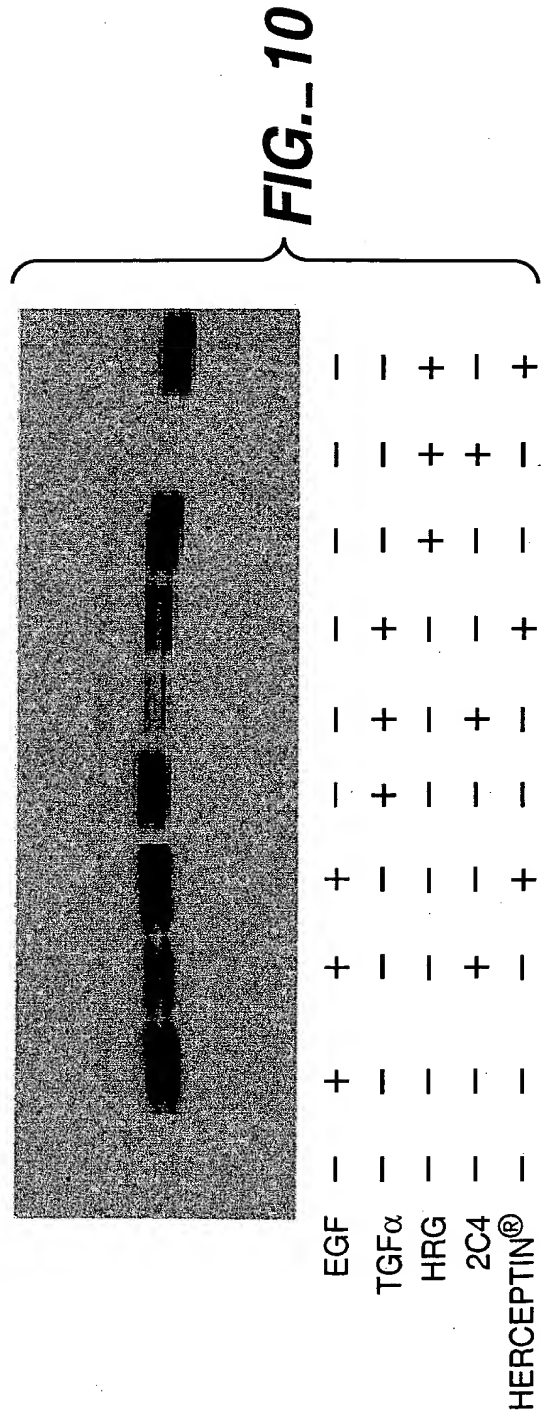
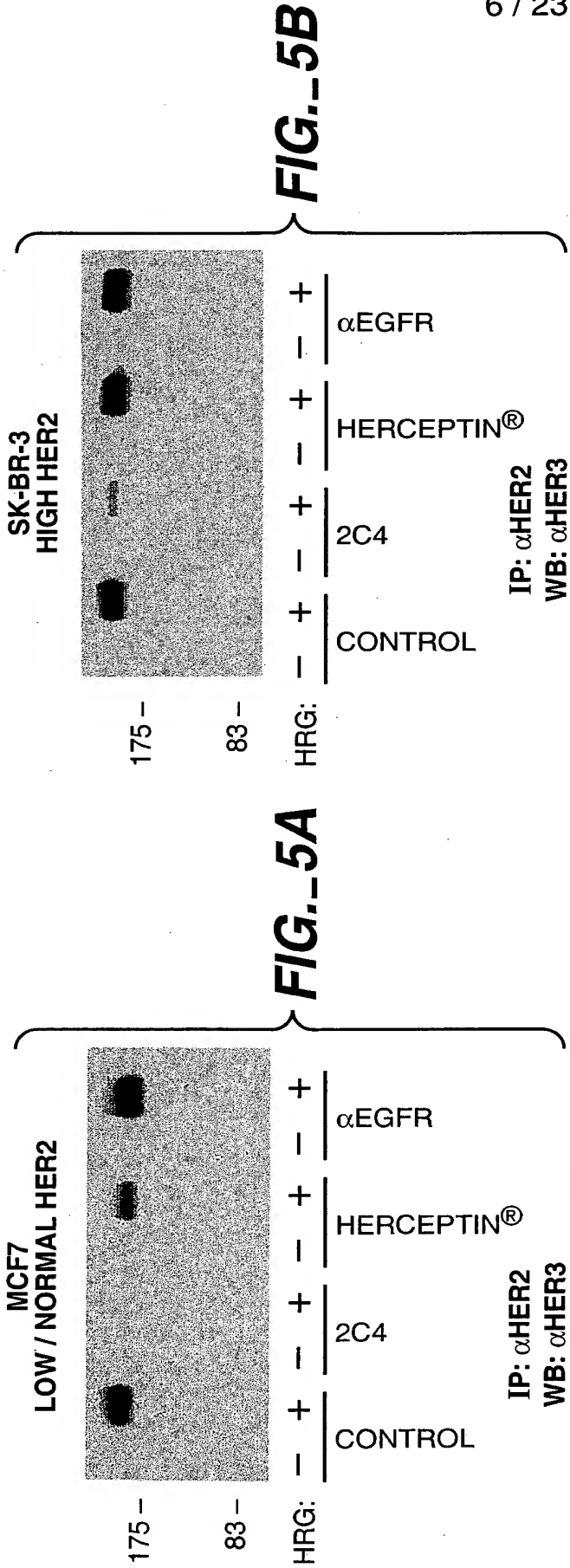
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**FIG. 2A****FIG. 2B**

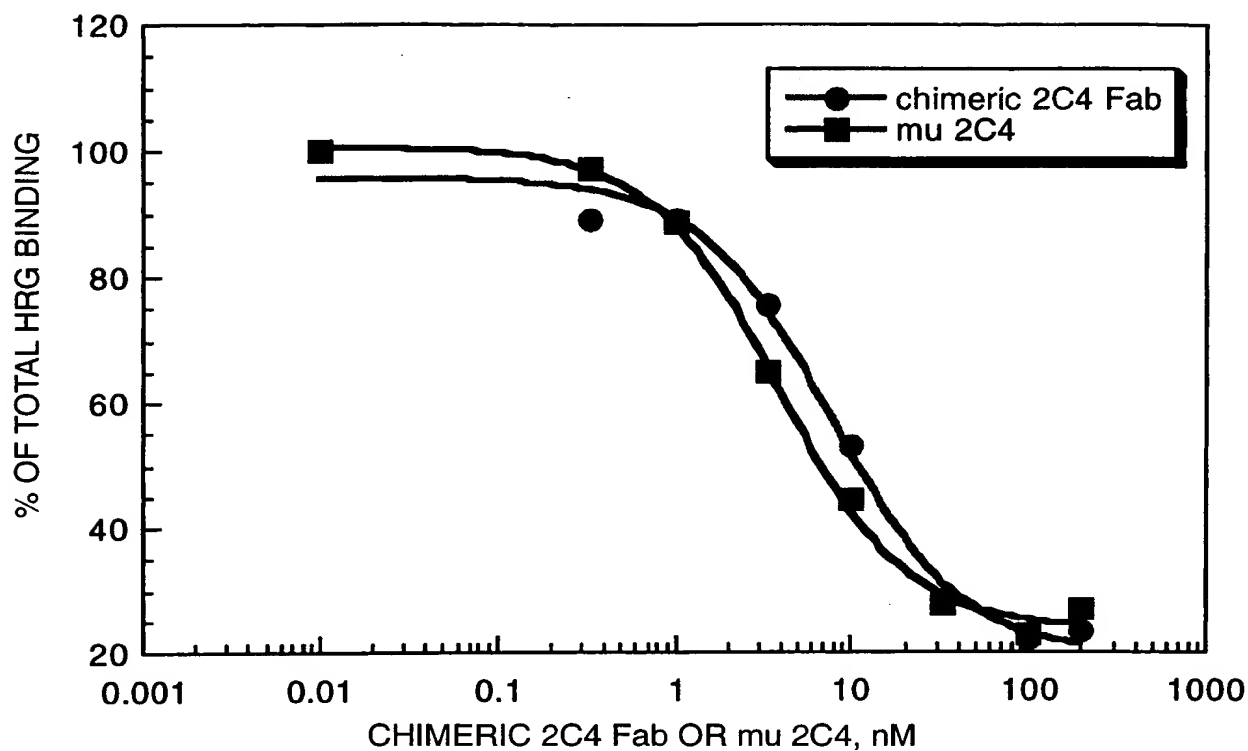
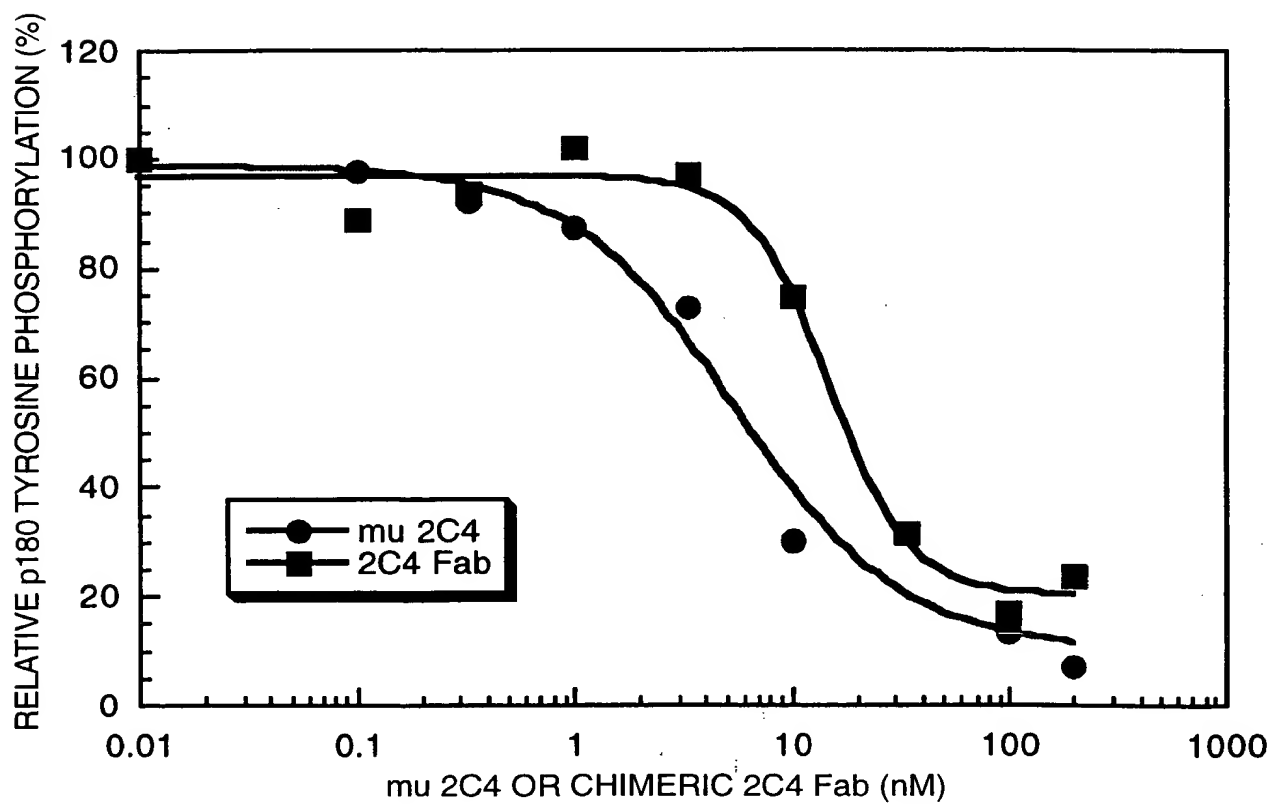
**FIG. 3**

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**FIG. 4A****FIG. 4B**



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**FIG. 6A****FIG. 6B**

## VARIABLE LIGHT

		50	60	70	80
2C4	GQSPKLLIY	[SASYRYT]	GVPDRFTGSGSGTDFTFTISSVQA		
	**		* *	*	* *
574	GKAPKLLIY	[SASYRYT]	GVPSRFGSGSGTDFTLTISLQP		
		* * * * *			
hum κI	GKAPKLLIY	[AASSLES]	GVPSRFGSGSGTDFTLTISLQP		

		90	100	
2C4	EDLAVYYC	[QQYYIYPYT]	FGGGTKLEIK	(SEQ ID NO:1)
	* *		* *	
574	EDFATYYC	[QQYYIYPYT]	FGQGTKVEIK	(SEQ ID NO:3)
		*** *		
hum κI	EDFATYYC	[QQYNSLPWT]	FGQGTKVEIK	(SEQ ID NO:5)

**FIG. 7A**

VARIABLE HEAVY

	10	20	30	40
2C4	EVQLQQSGPELVKPGTSVKISCKAS	[GFTFTDYTMD]	WVKQS	
	*  *  *  *  *  *			*  *
574	EVQLVESGGGLVQPGGSLRLSCAAS	[GFTFTDYTMD]	WVRQA	
		*  *  *		
hum III	EVQLVESGGGLVQPGGSLRLSCAAS	[GFTFSSYAMS]	WVRQA	

		50	a	60	70	80
2C4	HGKSLEWIG	[DVNPNSGGSIYNQRFKG]			KASLTVDRSSRIVYM	
	* * **				*** * **** *	
574	PGKGLEWVA	[DVNPNSGGSIYNQRFKG]			RFTLSVDRSKNTLYL	
		***** *** *****			* * *	
hum III	PGKGLEWVA	[VISGDGGSTYYADSVKG]			RFTISRDN SKNTLYL	

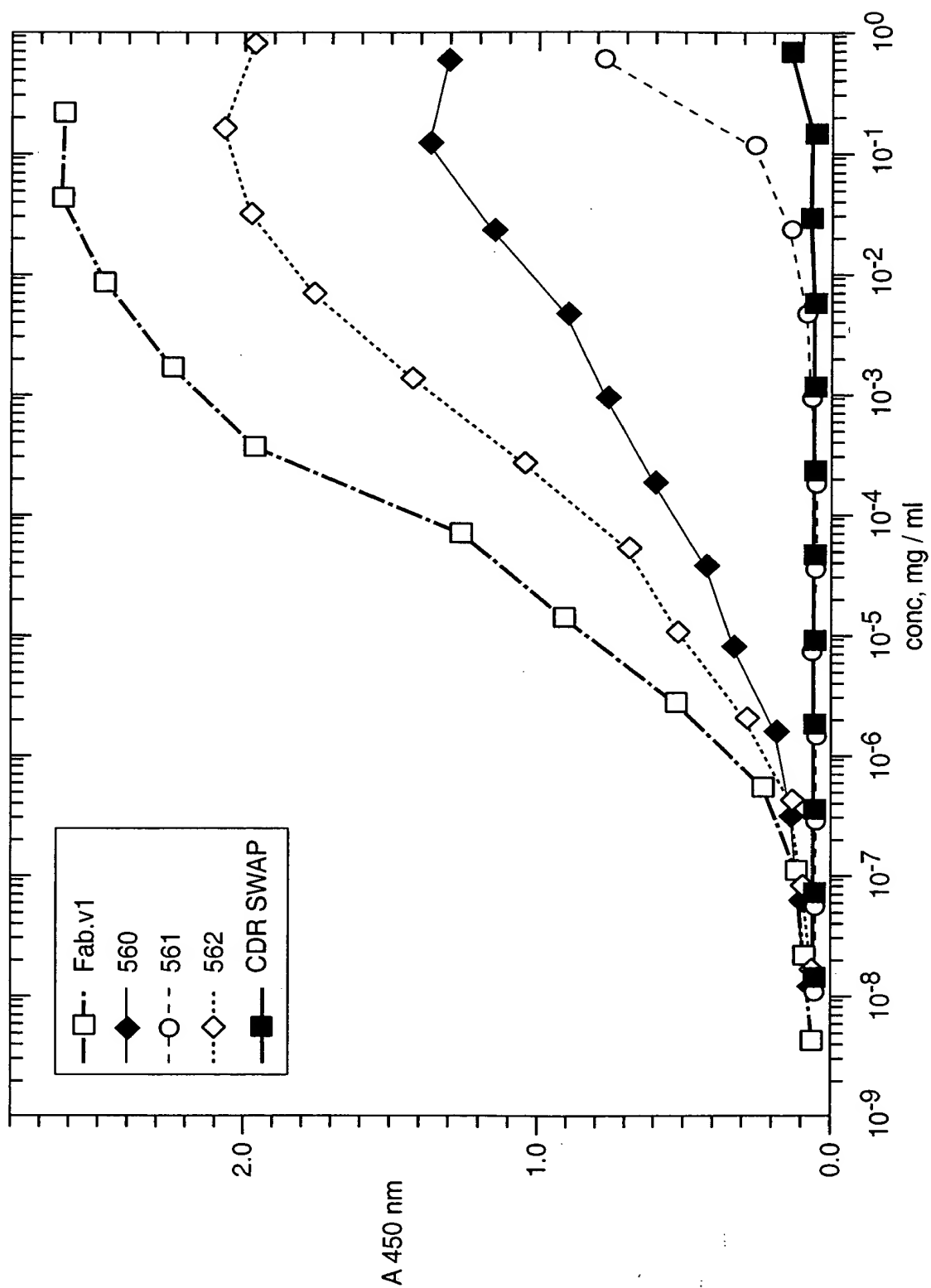
	abc	90	100ab	110	
2C4	ELRSLTFEDTAVYYCAR		[NLGPSFYFDY]	WGQGTTLTVSS	(SEQ ID NO:2)
	*** **			**	
574	QMNSLRAEDTAVYYCAR		[NLGPSFYFDY]	WGQGTTLTVSS	(SEQ ID NO:4)
			*****	:	
hum III	QMNSLRAEDTAVYYCAR		[GRVGYSLYDY]	WGQGTTLTVSS	(SEQ ID NO:6)

**FIG. 7B**

+



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**FIG.\_8A**

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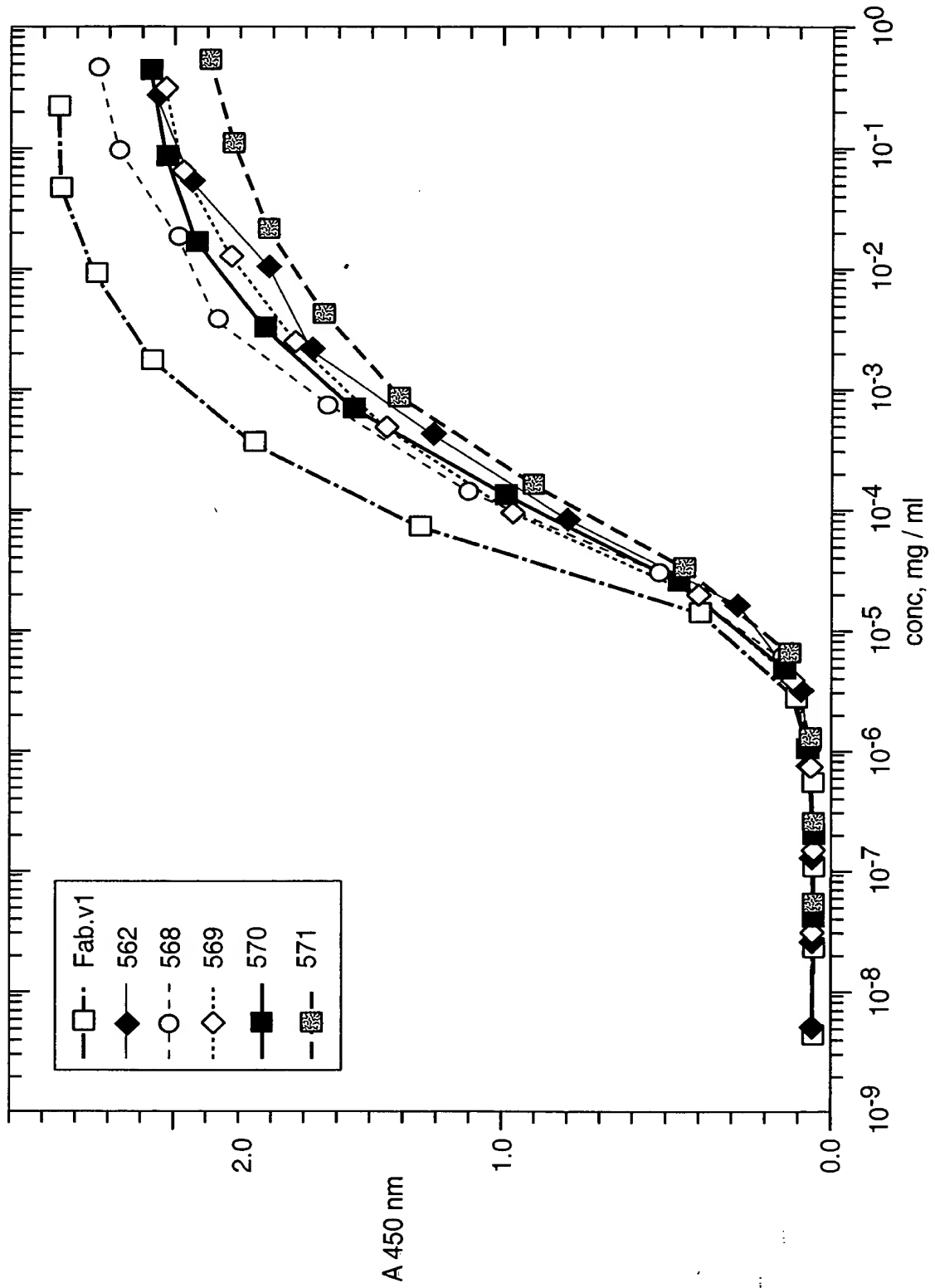


FIG. 8B

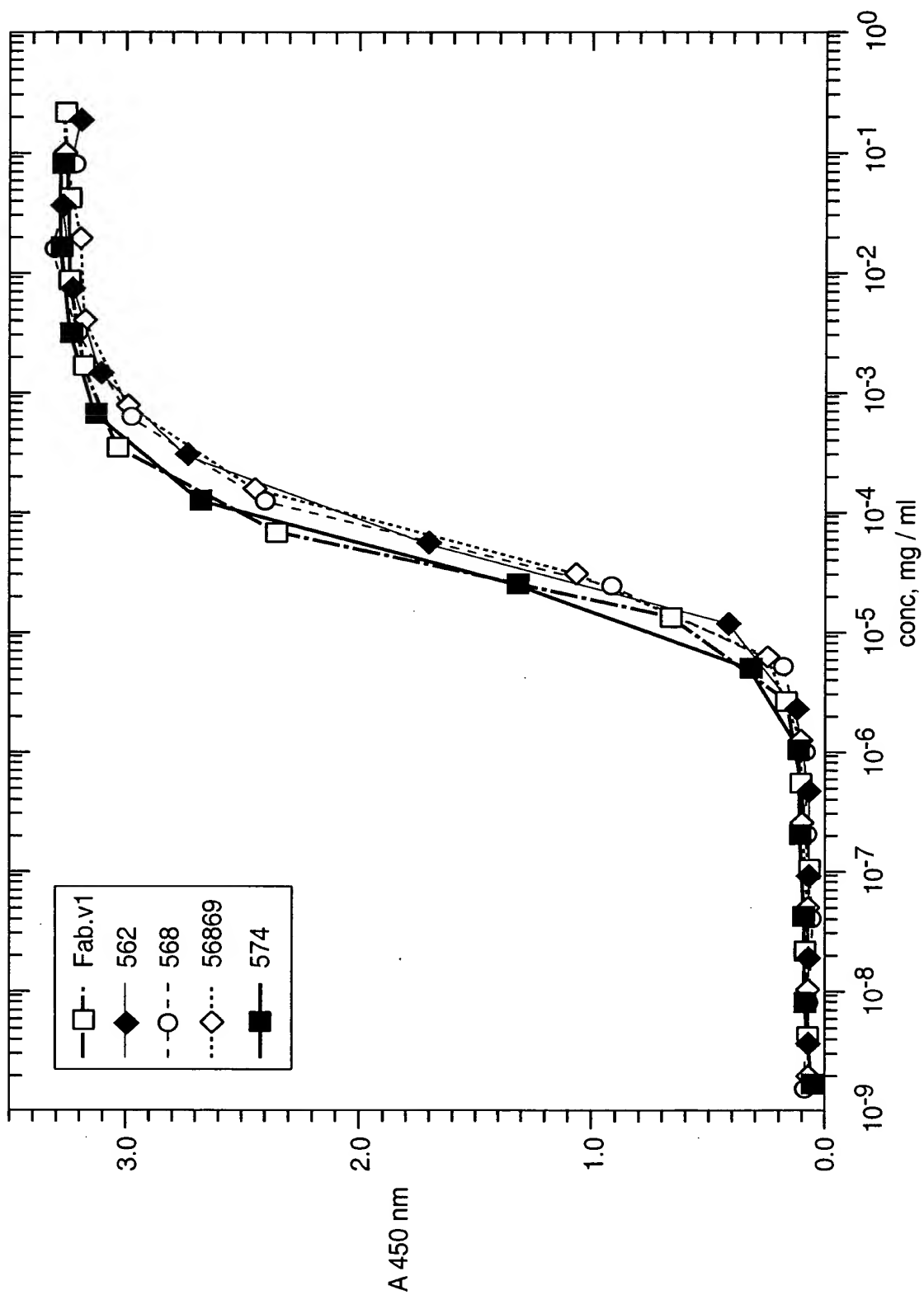


FIG.\_8C

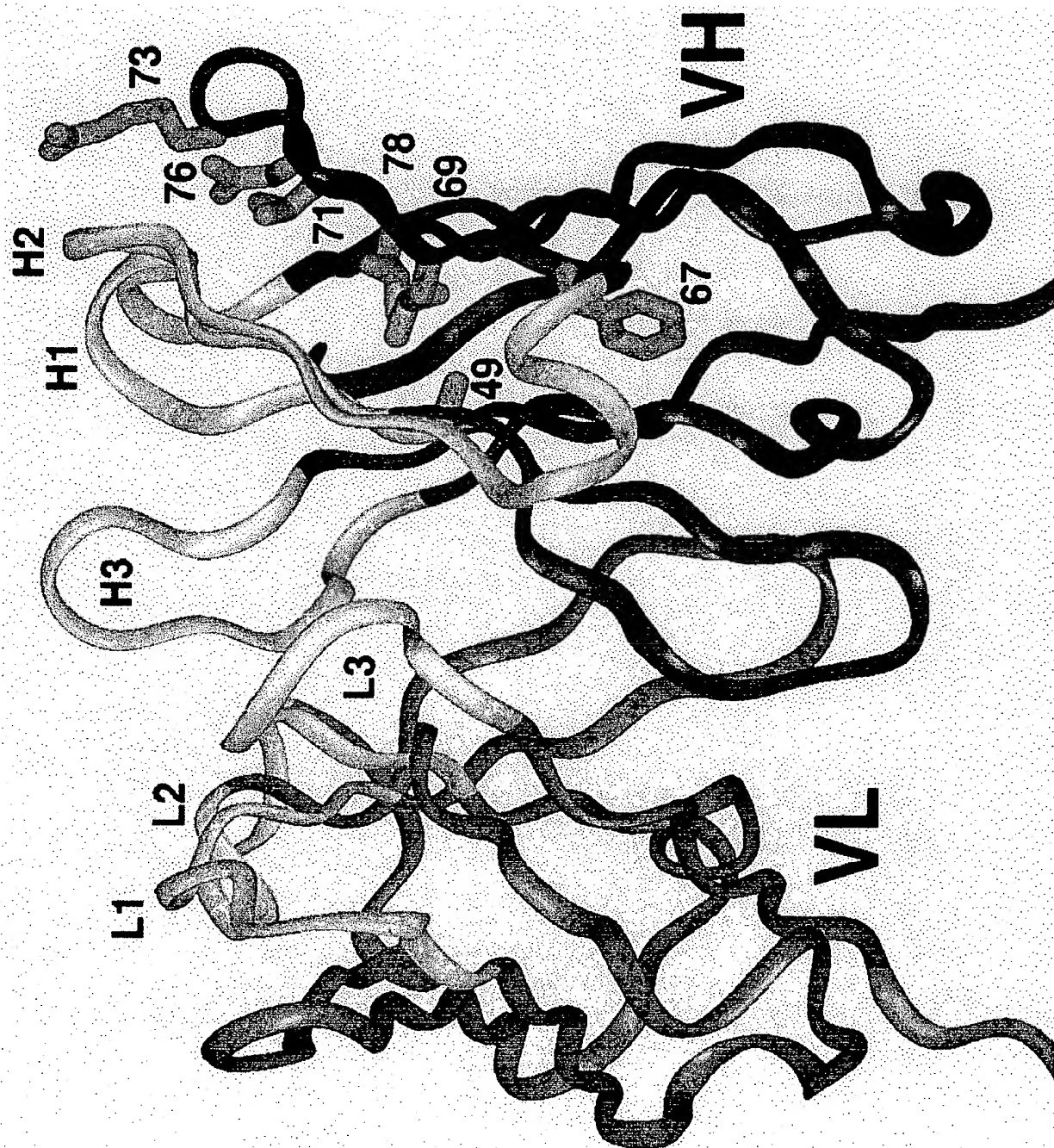
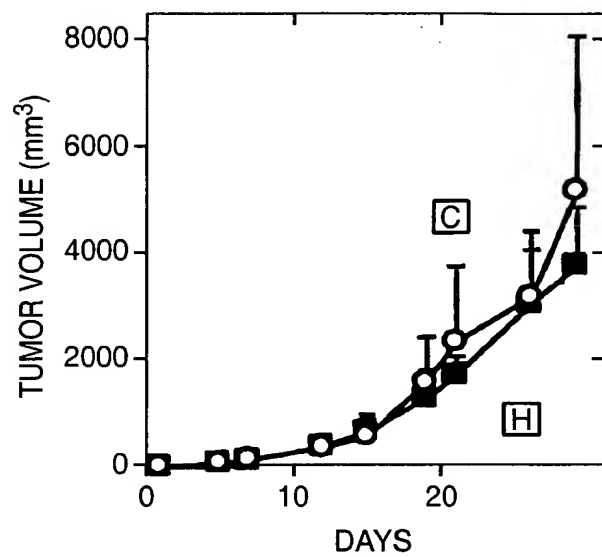
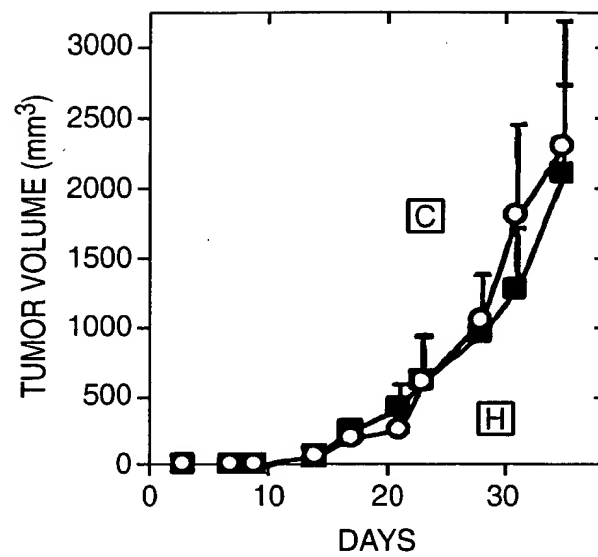
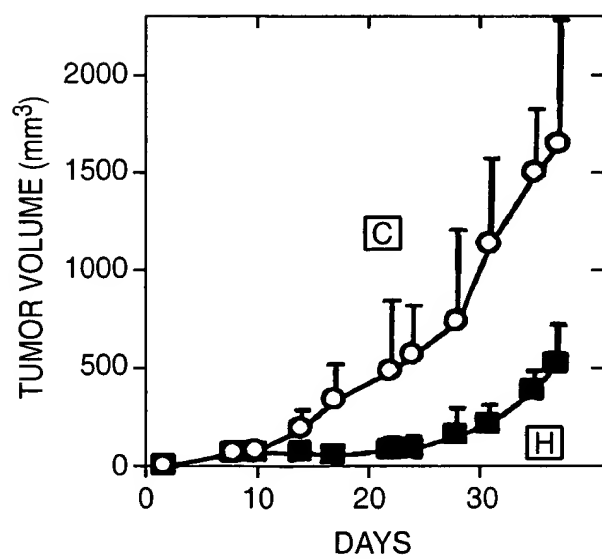
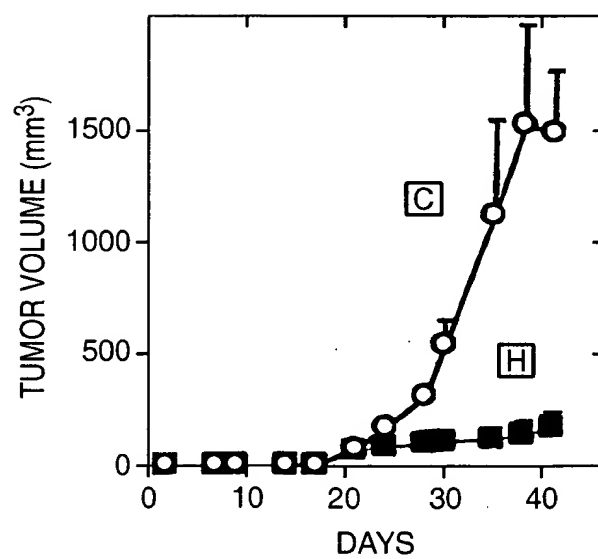
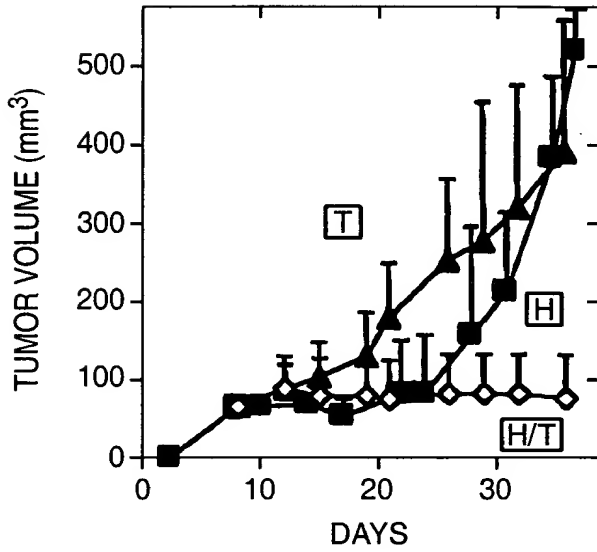
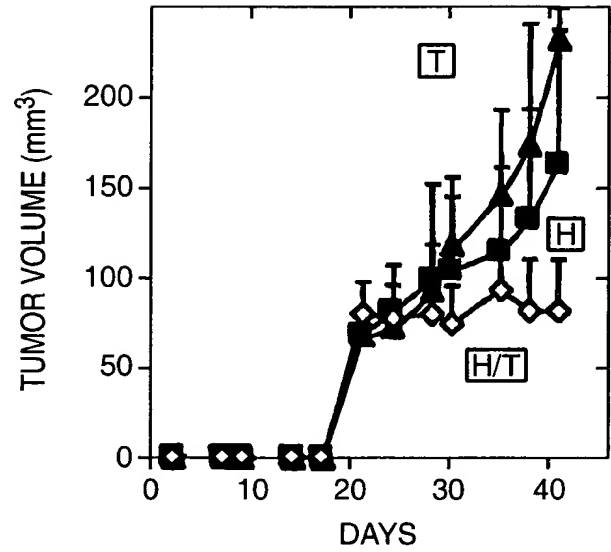
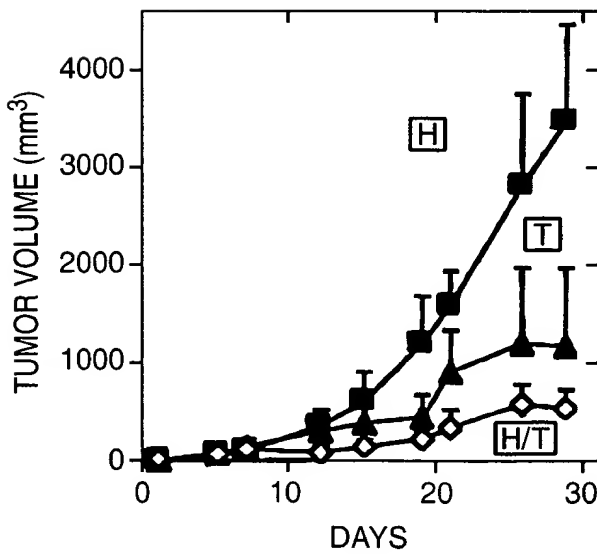
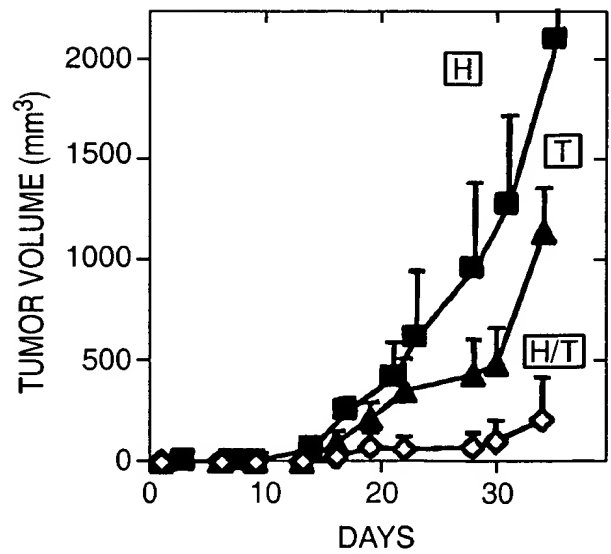
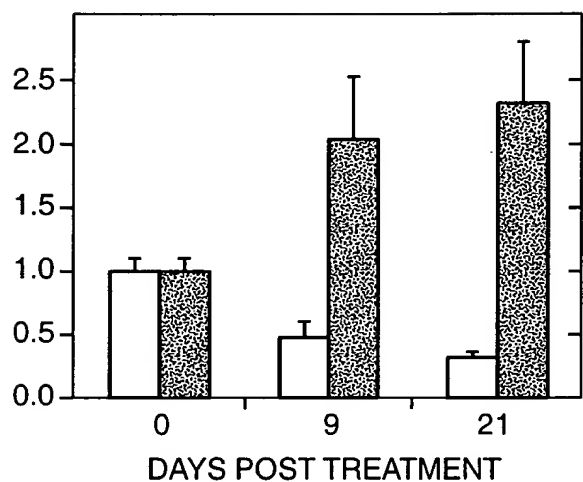
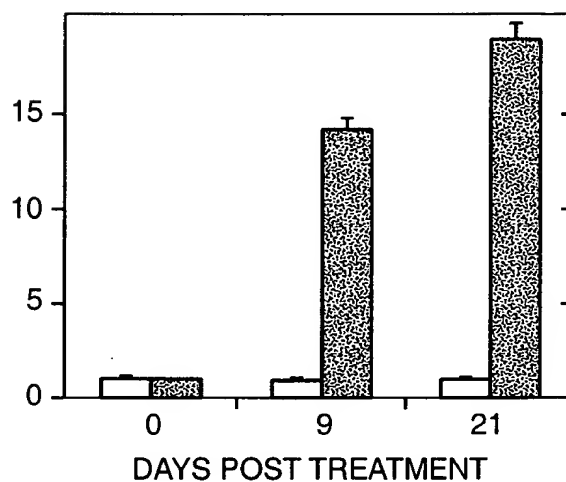
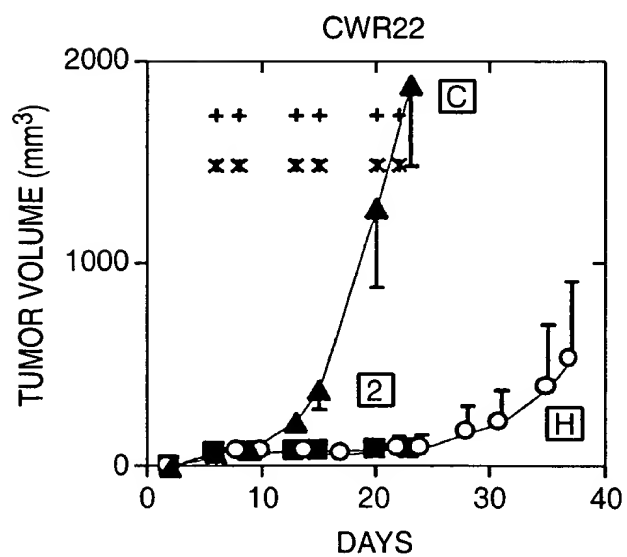
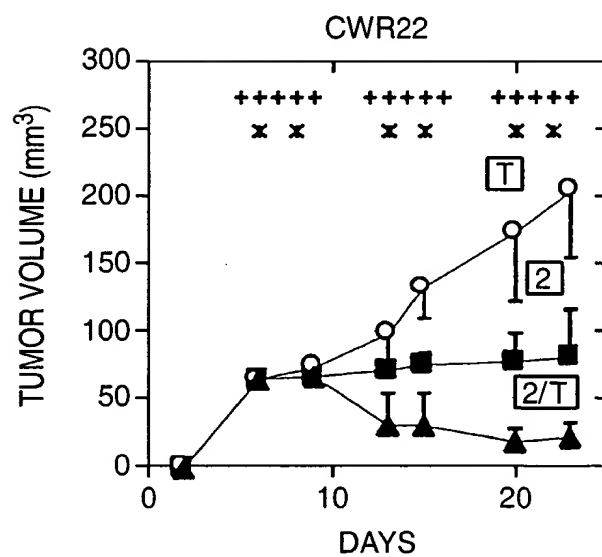
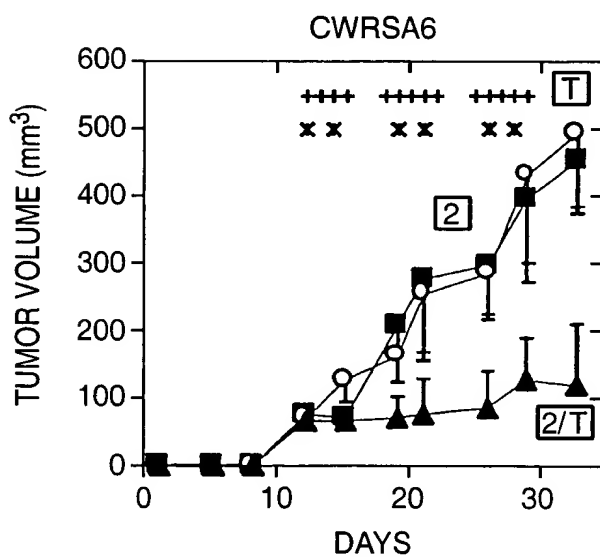
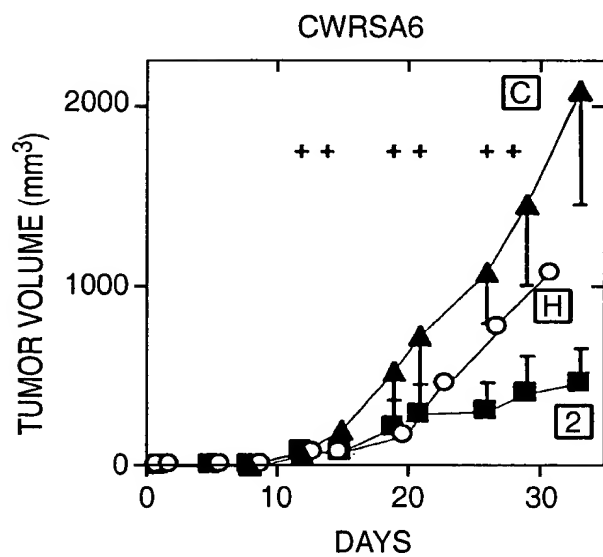
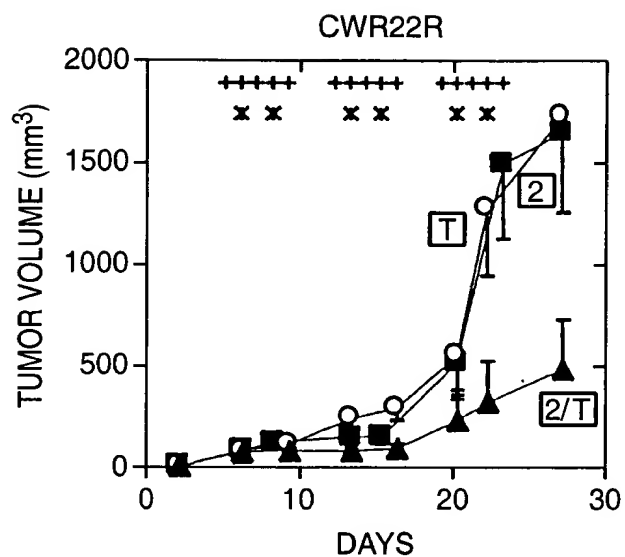
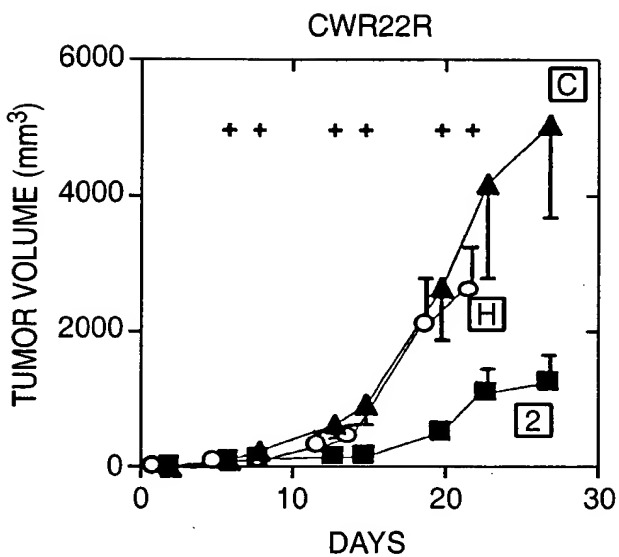


FIG.-9

**FIG. 11A****FIG. 11B****FIG. 11C****FIG. 11D**

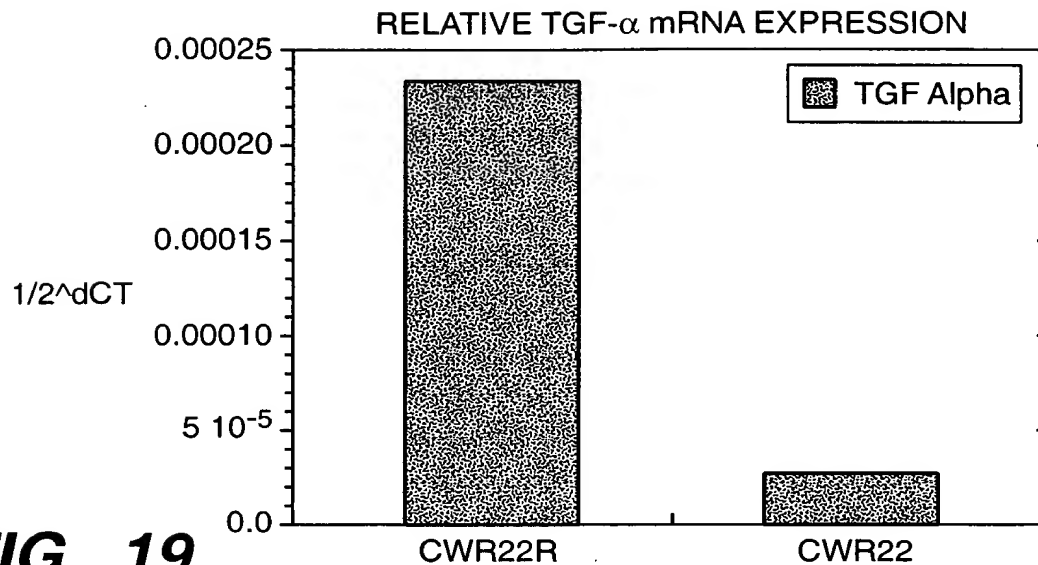
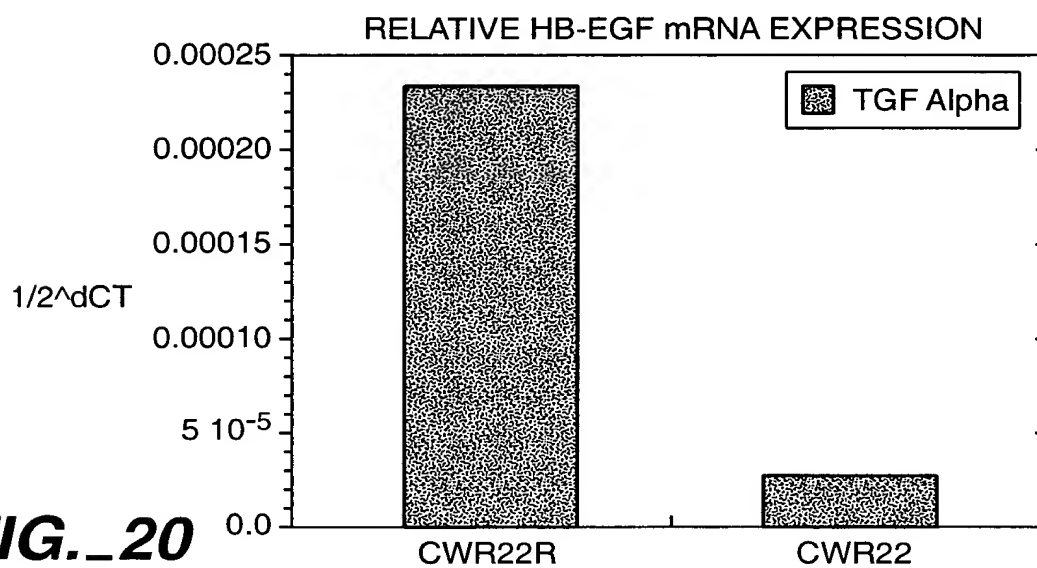
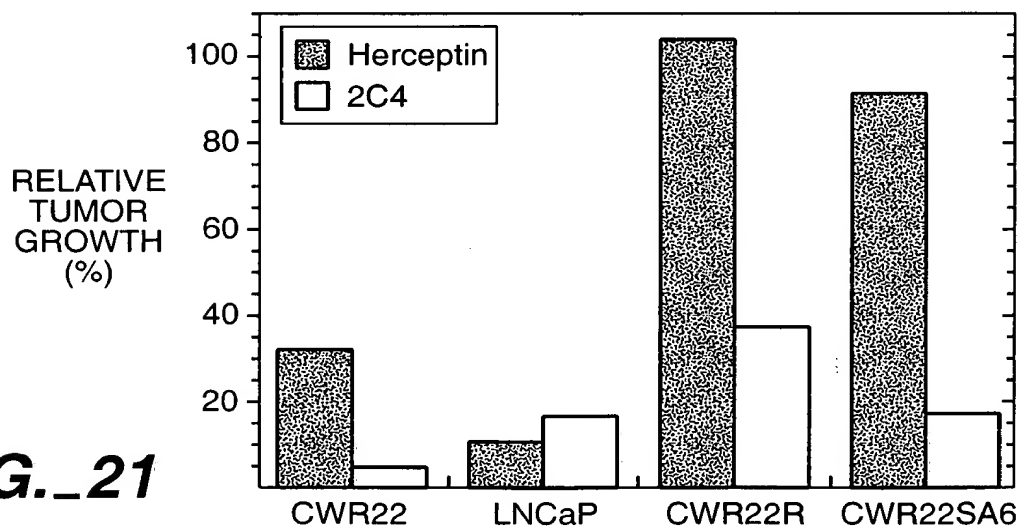
**FIG. 11E****FIG. 11F****FIG. 11G****FIG. 11H**

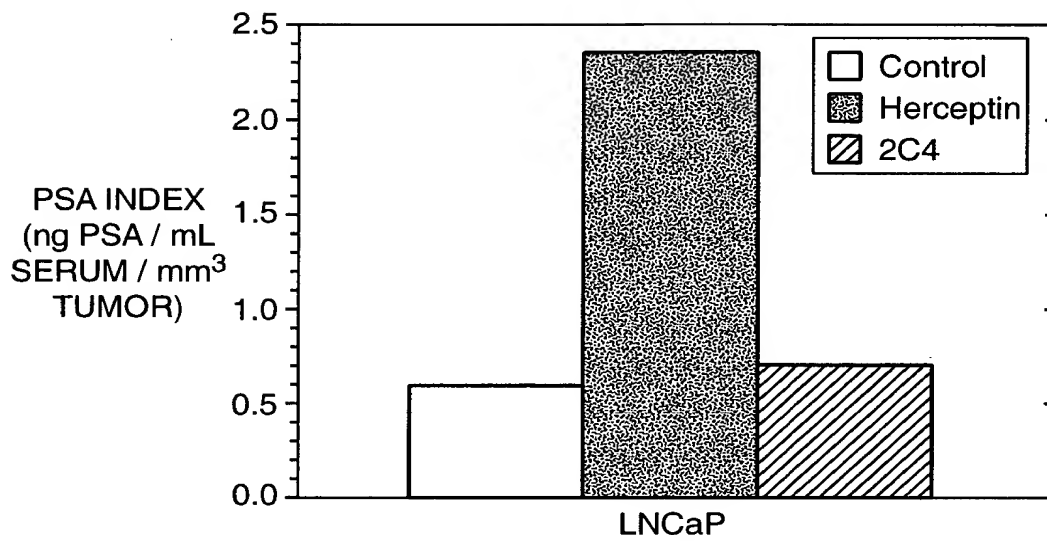
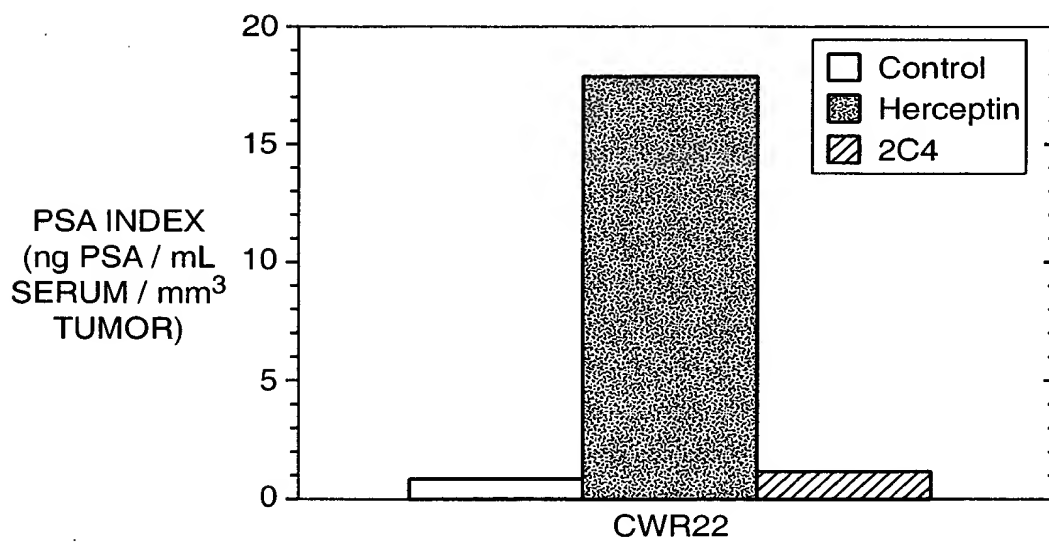
**FIG.\_12A****FIG.\_12B****FIG.\_13****FIG.\_14**





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**FIG.\_19****FIG.\_20****FIG.\_21**

**FIG. 22A****FIG. 22B**

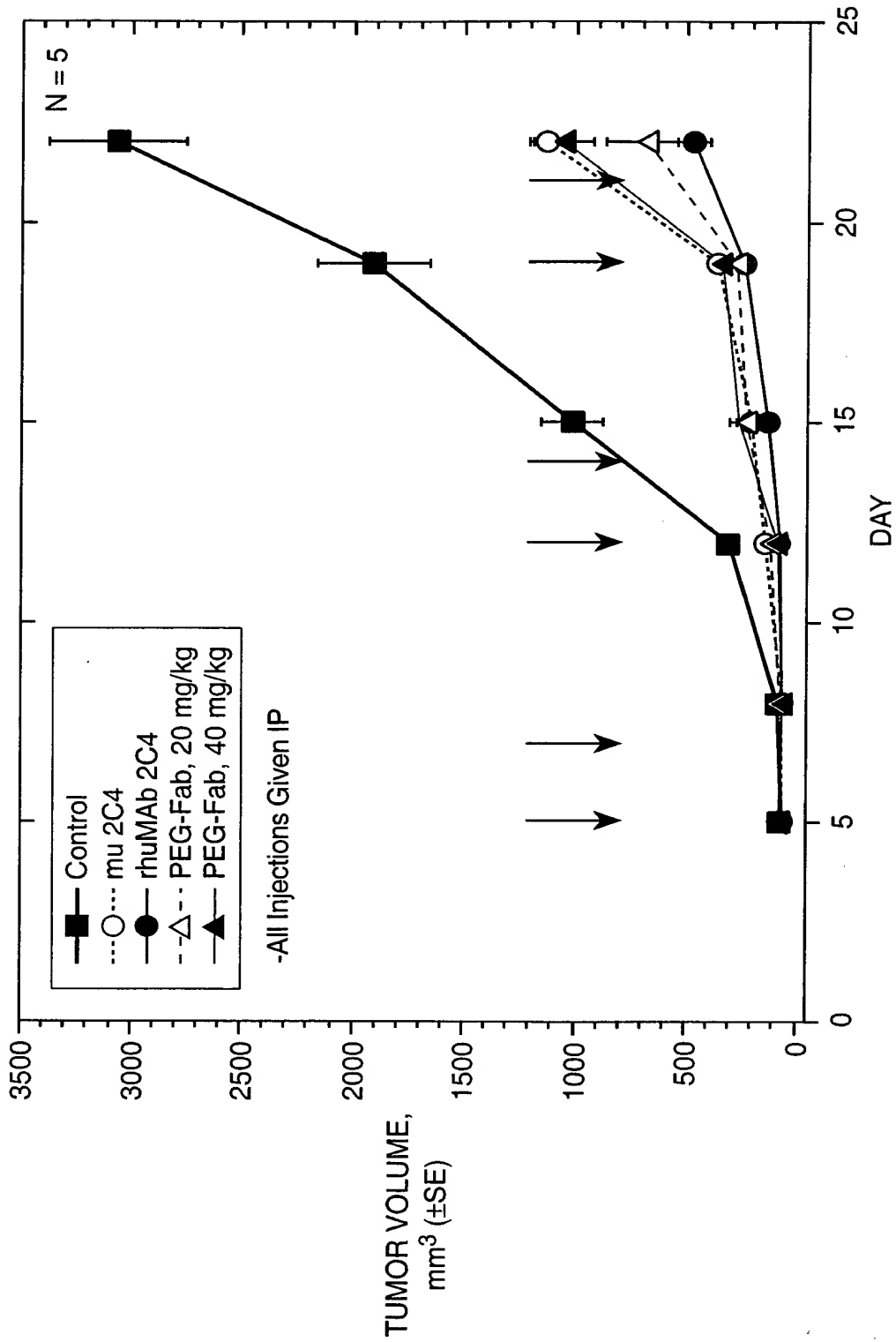


FIG. 23

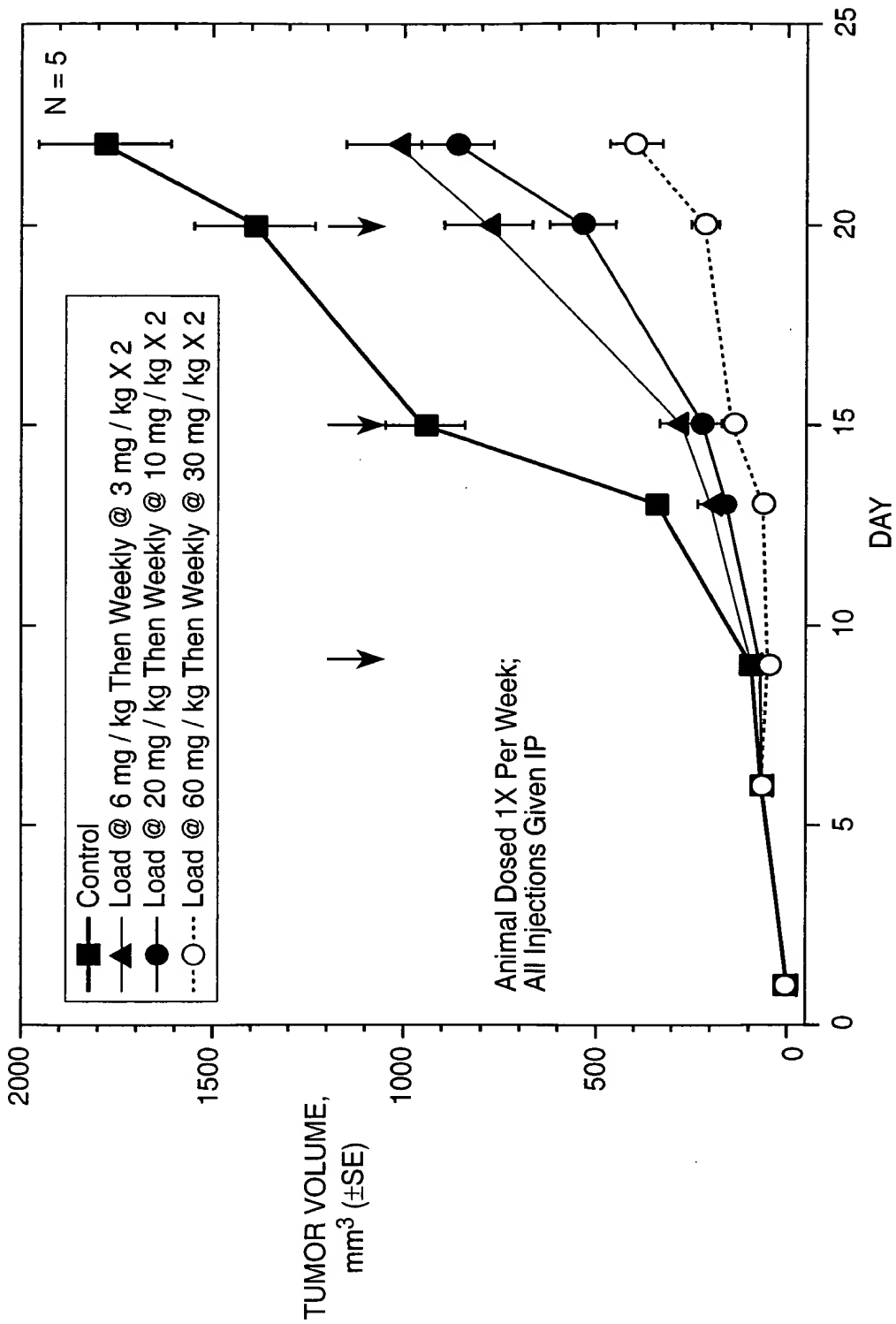


FIG. 24

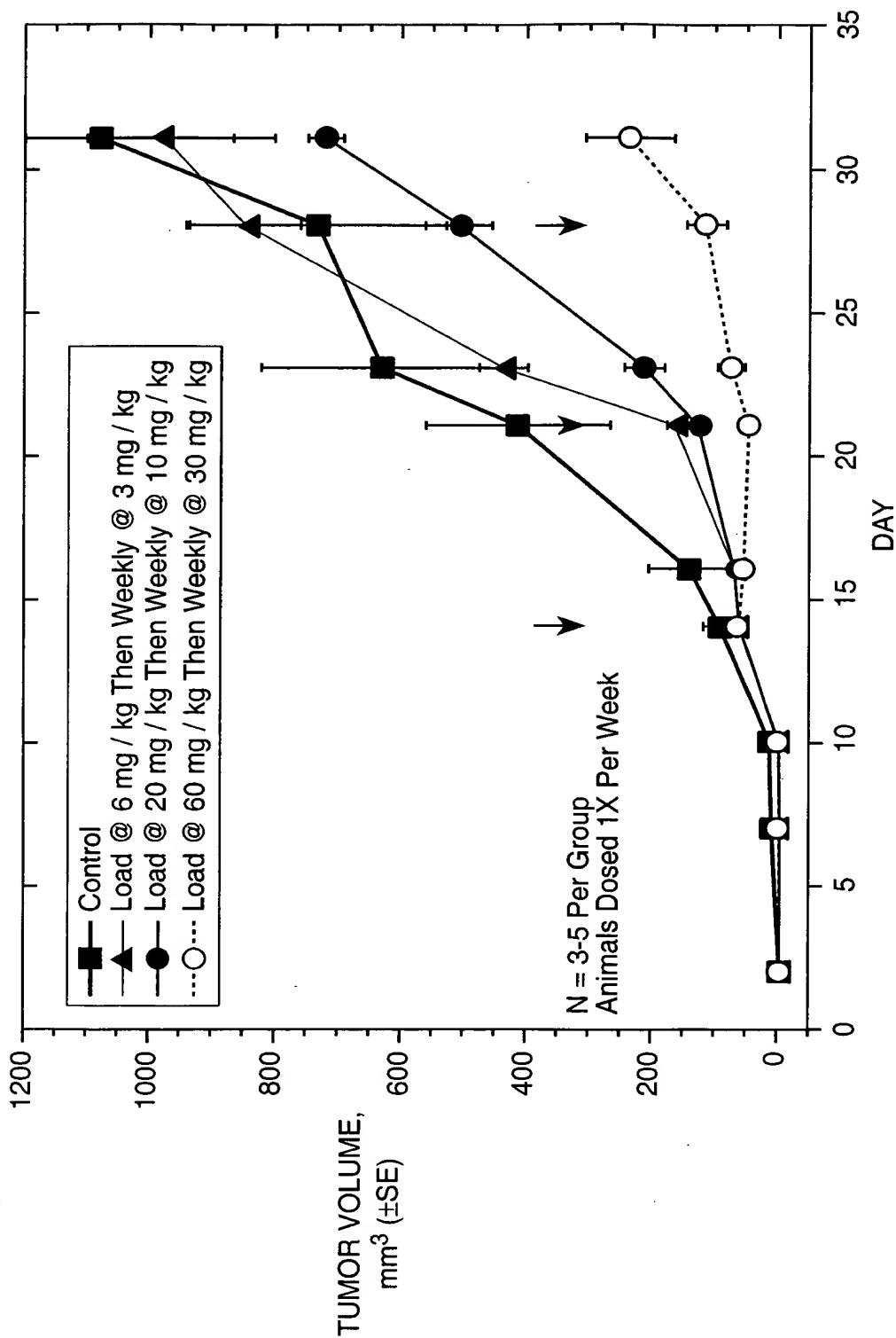


FIG. 25

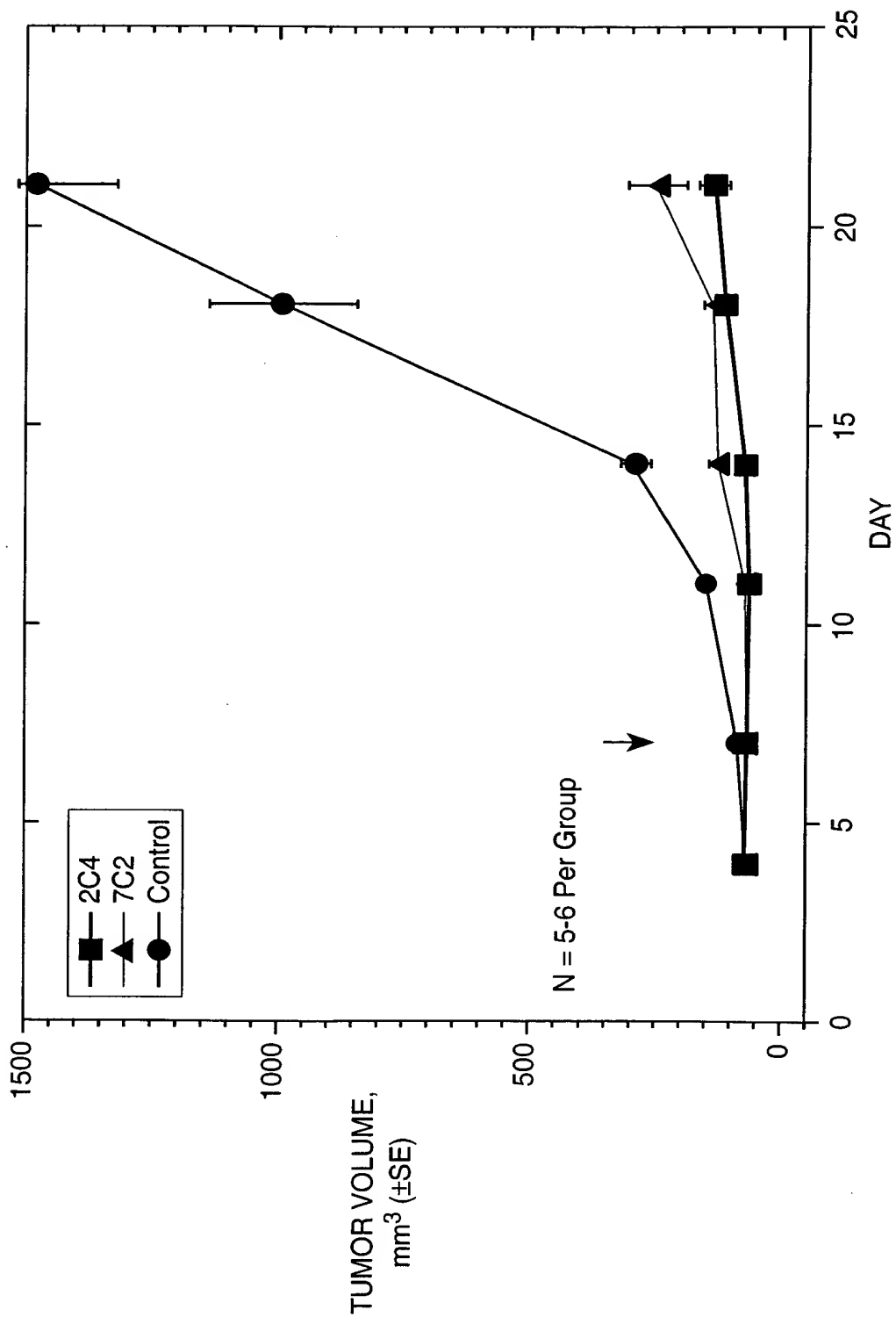


FIG. 26

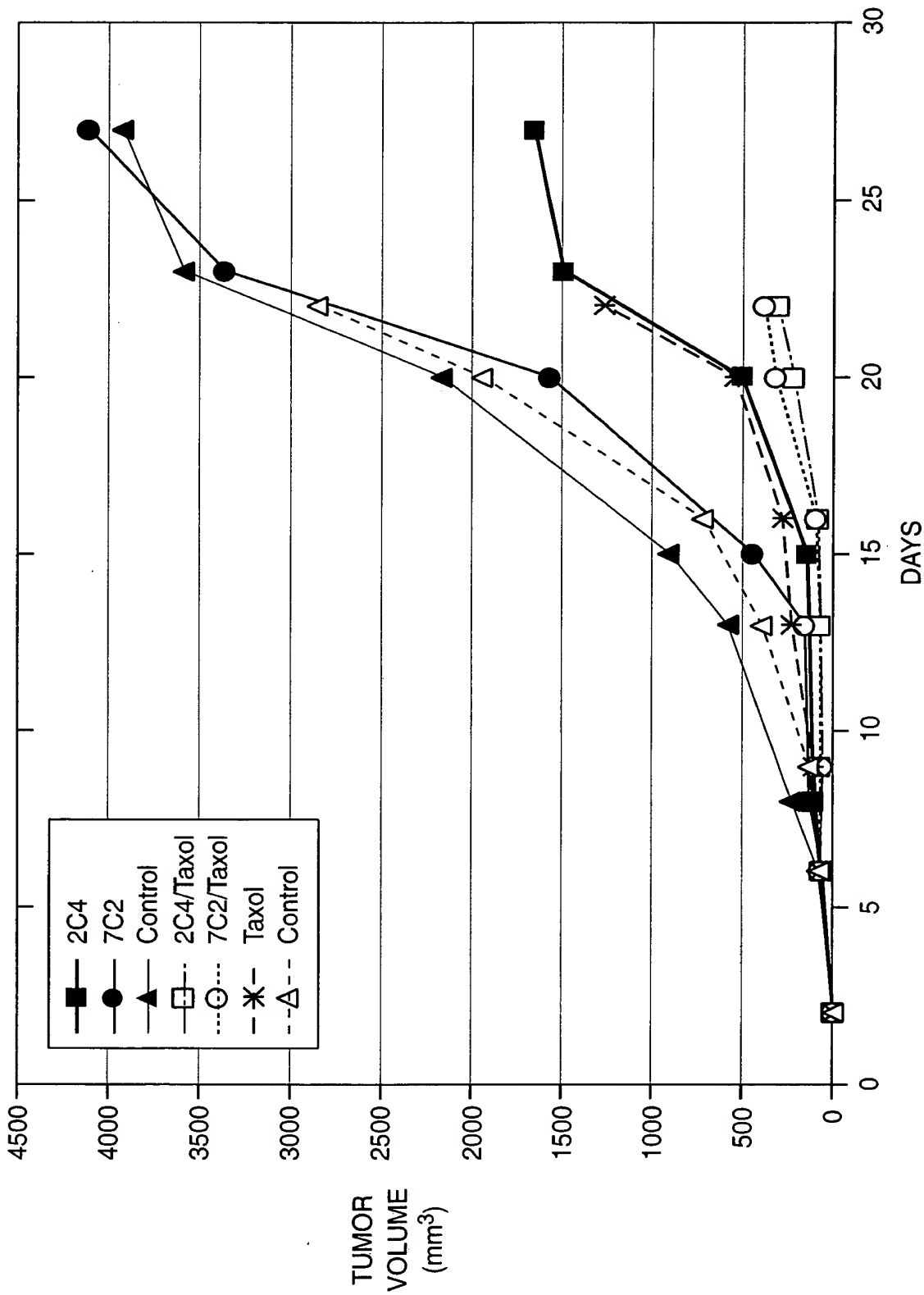


FIG. 27